

AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

- 1-10. (Canceled)
11. **(Currently Amended)** An ingestible imaging device comprising:
- an imaging device having a substantially spherical housing, said housing comprising a dome-shaped window through which a body lumen is illuminated and imaged; and
 - a detachable appendage, wherein the housing and the detachable appendage form an oblong capsule shape when joined together such that the dome-shaped window forms an end of the oblong capsule shape.
12. (Original) The device according to claim 11 comprising:
- an illumination source; and
 - a transmitter.
13. (Original) The device according to claim 12 wherein the illumination source has intensity that is adjustable in vivo.
14. (Original) The device according to claim 11 comprising a ballast weight.
15. (Original) The device according to claim 11 wherein the appendage includes a degradable material.
16. (Original) The device according to claim 15 wherein the degradable material is pH sensitive.
17. (Original) The device according to claim 11 wherein the appendage and the spherical housing are glued together.
18. (Original) The device according to claim 11 the appendage and the spherical housing are glued together with dissolvable glue.
19. (Original) The device according to claim 11 wherein the appendage comprises:

an outer coating; and

an internal filling.

20. (Original) The device according to claim 19 wherein the outer coating is semi-permeable.
21. (Withdrawn) A method for in vivo sensing, the method comprising:
causing detachment of an appendage of a sensing device in vivo.
22. (Withdrawn) The method according to claim 21 wherein the sensing device is substantially spherical.
23. (Withdrawn) The method according to claim 21 comprising:
orienting the sensing device along a body lumen wall.
24. (Withdrawn) The method according to claim 21 comprising:
triggering detachment of the appendage.
25. (Withdrawn) The method according to claim 21 wherein detachment is triggered by intake of a cold drink.
26. (Withdrawn) The method according to claim 21 wherein detachment is triggered by exposure to a specified pH environment.
27. (Withdrawn) A method according to claim 21 wherein the sensing device is an imaging device.
28. (Withdrawn) A method for viewing the upper GI tract, the method comprising:
inserting an ingestible imaging device, the device comprising a substantially spherical section and a detachable appendage; and detaching the appendage.
29. (Withdrawn) The method according to claim 28 comprising:
detaching the appendage near entrance to a stomach.
30. (Withdrawn) The method according to claim 28 comprising:
orienting the in-vivo device along an esophageal wall.

31. (Withdrawn) The method according to claim 28 comprising:
triggering detachment of the appendage.
32. (Withdrawn) The method according to claim 28 wherein detachment is triggered by the intake of a hot drink.
33. (Withdrawn) The method according to claim 28 wherein detachment is triggered by an elapsed time period.
34. (Withdrawn) The method according to claim 28 wherein the detachment is externally controlled.
35. **(Currently Amended)** The ingestible imaging device of claim [[1]] 14, wherein an imaging axis of said imaging device is aligned with the oblong axis of the detachable appendage when joined together.
36. (Withdrawn) A method of in vivo imaging comprising:
ingesting an imaging capsule including a substantially spherical imaging device joined to a detachable appendage, wherein the housing and the detachable appendage form an oblong capsule shape when joined together;
imaging a first in vivo segment while the imaging device and the detachable appendage are joined;
detaching the detachable appendage; and
after detaching the detachable appendage, imaging a second in vivo segment.
37. (Withdrawn) The method of claim 36, further comprising illuminating said first and second in vivo segments.
38. (Withdrawn) The method of claim 37, further comprising adjusting an illumination intensity after ingesting said imaging capsule.
39. (Withdrawn) The method of claim 36, further comprising transmitting in vivo images of said first and second in vivo segments.
40. (Withdrawn) The method of claim 36, further comprising degrading the detachable appendage in vivo.

41. (Withdrawn) The method of claim 40, wherein said detachable appendage is pH sensitive.
42. (Withdrawn) The method of claim 36, wherein the appendage and the spherical housing are glued together.
43. (Withdrawn) The method of claim 42, wherein the appendage and the spherical housing are glued together using dissolvable glue.
44. (Withdrawn) The method of claim 36, wherein said first in vivo segment is an esophagus and said second in vivo segment is a stomach.
45. (Withdrawn) The method of claim 36, wherein said first in vivo segment is a small intestine and said second in vivo segment is a large intestine.
46. (Withdrawn) The method of claim 36, wherein detaching the detachable appendage comprises detaching said appendage based on an external control.
47. (New) The device according to claim 14, wherein said imaging device comprises said ballast weight to maintain a specific orientation of the spherical housing with respect to gravity.
48. (New) The device according to claim 14, wherein the ballast weight is positioned in said spherical housing such that at least upon detachment from said detachable appendage, said imaging device is directed to image an area of the body lumen opposite a portion of said body lumen upon which the spherical housing is resting.